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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,045	01/11/2002	Ahmad Reza Kashani	UVD 0298 PA	2608
23368 7590 DINSMORE & SH		EXAMINER		
ONE DAYTON CE	ENTRE, ONE SOUTH	PENDLETON, BRIAN T		
SUITE 1300 DAYTON, OH 45402-2023			ART UNIT	PAPER NUMBER
<i>D.</i> 1.1011, 011 10			2615	
			DELVIEN	ÝMODE
SHORTENED STATUTORY PE	RIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/04/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/044,045	KASHANI, AHMAD REZA
Office Action Summary	Examiner	Art Unit
	Brian T. Pendleton	2615
The MAILING DATE of this communica		
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If NO period for reply is specified above, the maximum statute - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNIC TO CFR 1.136(a). In no event, however, may a recation. Dry period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. & 133)
Status		
1)⊠ Responsive to communication(s) filed of	on 26 September 2006	
_	☐ This action is non-final.	
3) Since this application is in condition for		rs, prosecution as to the merits is
closed in accordance with the practice		
Disposition of Claims		
4)⊠ Claim(s) <u>2,3,6,7,17-23,29-33 and 66</u> is	are pending in the application	
4a) Of the above claim(s) <u>8-16 and 25-2</u>	• • •	ition.
5)⊠ Claim(s) <u>34-41</u> is/are allowed.	_	
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction	n and/or election requirement.	
Application Papers		
9) The specification is objected to by the E	xaminer.	
10)⊠ The drawing(s) filed on 11 January 2003		iected to by the Examiner.
Applicant may not request that any objectio		-
Replacement drawing sheet(s) including the		* *
11)☐ The oath or declaration is objected to by		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for	foreign priority under 35 U.S.C. §	119(a)-(d) or (f).
a) All b) Some * c) None of:		
1. Certified copies of the priority do		and an extra section of the section
2. Certified copies of the priority do3. Copies of the certified copies of the		
application from the International	he priority documents have been r	eceived in this National Stage
* See the attached detailed Office action for	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	eceived
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Attachment(s)		
Notice of References Cited (PTO-892)	4) 🔲 Interview Su	mmary (PTO-413)
2) 🔲 Notice of Draftsperson's Patent Drawing Review (PTO-	.948) Paper No(s)	Mail Date
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other	ormal Patent Application
	, 0, Onler	- *

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DETAILED ACTION

Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2, 6, 7, 17-22, 31-33, and 66 are rejected under 35 U.S.C. 102(b) as being anticipated by Hashimoto et al, JP 6-110474. Hashimoto et al teach an active noise control system for a vehicle comprising motion sensor 1, acoustic sensor 8, controller (LMS unit 4, adaptive filter 2), and acoustic wave actuator 7. There is an electronic feedback loop involving filter 3.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 23, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto in view of Nakao. Hashimoto does not disclose that the motion sensor 1 is an accelerometer. Nakao discloses a vibration damping system which uses a motion sensor which

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is an accelerometer. It would have been obvious to one of ordinary skill in the art at the time of invention to modify Hashimoto by substituting an accelerometer, as taught by Nakao, as the motion sensor since it was well known to use such a device for the purpose of detecting vibrations on a surface. Claim 3 is rejected. Regarding claims 23 and 29, Nakao discloses a second electronic feedback loop. It would have been obvious to one of ordinary skill in the art at the time of invention to use the second feedback loop in Hashimoto for the purpose of adapting the noise control output according to the microphone error signal.

Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto et al in view of Fuller. Hashimoto et al do not disclose that the acoustic wave actuator and acoustic wave sensor are positioned to correspond to the location of the acoustic anti-node of a target acoustic mode within the vehicle. Fuller discloses an apparatus for noise reduction in an enclosure comprising a plurality of microphones 26 and actuators 24. As taught in column 8 lines 21-37, the microphones 26 are located to detect acoustic modes. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Hashimoto et al by positioning the microphone with regard to a target acoustic mode, as taught by Fuller, for the purpose of canceling a particular noise component.

Allowable Subject Matter

Claims 34-41 are allowed.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brian T. Pendleton Primary Examiner Art Unit 2615

btp